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To James Hanley/EPR/R8/USEPA/US@EPA, "Hight, Paul"
<HightPK@cdm.com>

cc

04/23/2007 01:44 PM

bcc

Subject RE: Status of CADD updates to as-built water management
infrastructure at GEM

History:

✉ This message has been replied to.

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Jim,

First, thanks Paul for sending the May 2006 pipe line layout. FYI - The fuel storage information will be updated in the revised management plan.

Second, I have attached the Hoodoo, Pond C, and Ruby layouts. The hand notes that Paul provided, along with GPS data, will be used to locate and document the system. The CADD work will be done tomorrow (PM) and the GIS will be completed the following day.

The use of Sunday Pit lake as the site's ARD storage vessel is an artifact of previous Brohm and DENR operations at the site. I don't know why Brohm used the Sunday Pit but I suspect that during mining of the Anchor Hill, groundwater that reported to the floor of the pit was pumped to Strawberry Creek or to Sunday Pit for storage and subsequent treatment.

The ARD feed to the WTP has always been through Strawberry Creek Pumphouse. Balancing of influent rates to the WTP is performed at the pumphouse and/or Sunday Pit (Barge and submersible pump). If ARD flow rates entering Pond E exceeds the WTP treatment rate, ARD is pumped to Sunday Pit. If ARD flow rates entering Pond E is below the WTP treatment rate, then ARD is pumped from Sunday Pit to Pond E.

Because of Brohm's finical difficulties, I think they got by with what they had and capital expenditures were not an option at the time. I'm not sure they had a reason to change the configuration of the system. At the end, they were doing everything possible to keep ARD within the site boundary, including pumping ARD to Anchor Hill.

For DENR, I believe that the group (EPA, BOR, DENR, FHI (BOR's O&M contractor) did not know what impact a hydraulic mound in Sunday Pit would created surface water in Strawberry Creek or to groundwater to the surrounding area. I believe that this is relative new information from CDM's site model and that may be what DENR is reacting to. This is just my opinion.

It is also important to keep in mind that storage of ARD at the Anchor Hill Pit is the best of the options available to us. The Anchor Hill has its problems but it is the best option for the limitations that have been placed on the FS team.

Please let me know if additional information is required.

-----Original Message-----

From: Hanley.James@epamail.epa.gov [mailto:Hanley.James@epamail.epa.gov]

Sent: Monday, April 23, 2007 10:29 AM

To: Hight, Paul

Cc: Fundingsland, Steven

Subject: Status of CADD updates to as-built water management infrastructure at GEM

Importance: High

Steven,

Have you been able to turn the CAD capability at CDM Denver to the ongoing task of bringing all the "as-built" field engineering changes to the ARD water management circuits into a "record set" of facility drawings? I would like to see this task completed while I am still working on the Site so that my successor has an easier time of learning the site drainage, collection, and treatment systems.

In addition, we are facing additional pressure from SD DENR to substantially modify operations of the collection basins and to redesignate the primary basin from Sunday Pit lake to Anchor Hill pit lake. In my own briefings to Russ Leclerc and Bill Murray, it would help me to understand how we got to where we are today, i.e. reliance upon Sunday Pit lake for primary ARD storage.

Peggy and I have an appointment to discuss this with our managers on Tuesday, 1100. Could you send me some single-line drawings depicting the dirty water pumpback and clean water gravity pipes or ditches at the Site?

R/,

Jim Hanley

USEPA

Superfund Remedial

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"Hight, Paul" <HightPK@cdm.com> wrote on 04/20/2007 11:28:30 AM:

> Please let me know if any of you would like to be removed from the
> distribution list.
>
>
>
> Thanks
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>
>
> Paul Hight
> [attachment "NEW WEEKLY REPORT 4-16-07.doc" deleted by James
> Hanley/EPR/R8/USEPA/US]
> [attachment "NPDES & WTP Sampling Results - NRA.xls" deleted by James
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- Site Pumps 5 11 06.pdf



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